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A method is provided of continuously transmitting user data on a reverse common channel in a mobile communication system without a reverse dedicated channel. The user data is divided into a plurality of segmented messages if the user data is longer than a data segment in a frame of the reverse common channel. The plurality of segmented messages are then transmitted in the data segments of consecutive frames on the reverse common channel. The method further comprises determining whether a base station receives the segmented messages by receiving a response message indicating reception of the segmented messages. The common channel is preferably a power-controlled logical dedicated channel.